

C.O.C #27

CHAIN OF CUSTODY REPORT

Work Order #: M1 06074

CLIENT: Bristol		INVOICE TO: Bristol Envir. & Engineering		TURNAROUND REQUEST in Business Days* Organic & Inorganic Analyses <div style="display: flex; justify-content: space-around;"> <div>10 7 5 4 3 2 1 <1</div> <div>STD.</div> <div>5 4 3 2 1 <1</div> </div> Petroleum Hydrocarbon Analyses <div style="display: flex; justify-content: space-around;"> <div>5 4 3 2 1 <1</div> <div>STD.</div> <div>OTHER</div> <div>Please Specify</div> </div> <p><small>*Turnaround Requests less than standard may incur Rush Charges.</small></p>																																									
REPORT TO: Anne Krawawether		P.O. NUMBER: 21090																																											
ADDRESS: Anchitha Island AK																																													
PHONE: 770-0974		FAX: 770-0975																																											
PROJECT NAME: Anchitha		REQUESTED ANALYSES				<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th>MATRIX (W, S, O)</th> <th># OF CONT.</th> <th>COMMENTS</th> <th>NCA WO ID</th> </tr> <tr> <td>W</td> <td>9</td> <td>Field</td> <td></td> </tr> <tr> <td></td> <td></td> <td>DO =</td> <td></td> </tr> <tr> <td></td> <td></td> <td>PH =</td> <td></td> </tr> <tr> <td></td> <td></td> <td>Turb =</td> <td></td> </tr> <tr> <td></td> <td></td> <td>Measured w/</td> <td></td> </tr> <tr> <td></td> <td></td> <td>U-10 Horibix</td> <td></td> </tr> <tr> <td></td> <td></td> <td>water checker</td> <td></td> </tr> <tr> <td></td> <td></td> <td>Gallons Treated</td> <td></td> </tr> </table>				MATRIX (W, S, O)	# OF CONT.	COMMENTS	NCA WO ID	W	9	Field				DO =				PH =				Turb =				Measured w/				U-10 Horibix				water checker				Gallons Treated	
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SAMPLED BY: ARK/cum																																													
<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th>CLIENT SAMPLE IDENTIFICATION</th> <th>SAMPLING DATE/TIME</th> <th>PcBs</th> <th>Metals</th> <th>BOD</th> <th>TSS</th> <th>Fecal Coliform BAC</th> <th>PO & Ph</th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> </tr> </table>		CLIENT SAMPLE IDENTIFICATION	SAMPLING DATE/TIME	PcBs	Metals	BOD	TSS	Fecal Coliform BAC	PO & Ph																																				
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1. OIAMTE 04846/23/01 1845		X	X	X	X	X	X																																						
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RELINQUISHED BY: Charlie Marshall		FIRM: Bristol		DATE: 6/23/01		TIME: 1900		RECEIVED BY: Craig Bradle		FIRM: NCA		DATE: 6/23/01		TIME: 1900																															
RELINQUISHED BY:		FIRM:		DATE:		TIME:		RECEIVED BY:		FIRM:		DATE:		TIME:																															
PRINT NAME:		FIRM:		DATE:		TIME:		PRINT NAME:		FIRM:		DATE:		TIME:																															
ADDITIONAL REMARKS: As per SAP cum														TEMP: 6.2°C		PAGE 1 OF 1																													



Seattle 11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-9223
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541.383.9310 fax 541.382.7588

6 December, 2001

Anne Kranawetter
Bristol Environmental & Engineering
2000 W International Airport C#1
Anchorage, AK 99502-1116

RE: Amchitka

Enclosed are the results of analyses for samples received by the laboratory on 06/23/01 19:00. If you have any questions concerning this report, please feel free to contact me.

This report was recreated from a previously issued final report in order to provide an electronic copy. The final report used for these electronic copies may have been previously issued as an amended report due to client requested changes to sample names, etc. No data has changed since submission of the previously issued final, or amended, report.

Sincerely,

Stephen Wilson
Environmental Group Leader

Work Orders included in this report:

M106074



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Bristol Environmental & Engineering
2000 W International Airport C#1
Anchorage, AK 99502-1116

Project: Amchitka
Project Number: 21090
Project Manager: Anne Kranawetter

Reported:
10/23/01 14:32

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
01AMTE04SW	M106074-01	Water	06/23/01 18:45	06/23/01 19:00

C.O.C. # 27

North Creek Analytical - Mobile Lab

Stephen Wilson, Environmental Group Leader

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

North Creek Analytical, Inc.
Environmental Laboratory Network

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Bristol Environmental & Engineering
2000 W International Airport C#1
Anchorage, AK 99502-1116

Project: Amchitka
Project Number: 21090
Project Manager: Anne Kranawetter

Reported:
10/23/01 14:32

Polychlorinated Biphenyls per EPA Method 8082

North Creek Analytical - Mobile Lab

Analyte	Result	Reporting Limit	Units	Dilution	Method	Prepared	Analyzed	Batch	Notes
01AMTE04SW (M106074-01) Water					Sampled: 06/23/01 Received: 06/23/01			R-05	
Aroclor 1016	ND	0.500	ug/l	1	EPA 8082	06/26/01	06/28/01	0106091	
Aroclor 1221	ND	1.00	"	"	"	"	"	"	
Aroclor 1232	ND	0.500	"	"	"	"	"	"	
Aroclor 1242	ND	0.500	"	"	"	"	"	"	
Aroclor 1248	ND	0.500	"	"	"	"	"	"	
Aroclor 1254	2.79	1.00	"	"	"	"	"	"	
Aroclor 1260	ND	1.00	"	"	"	"	"	"	
<i>Surr: 2,4,5,6-Tetrachloro-m-xylene</i>	<i>53.8 %</i>	<i>44-119</i>							
<i>Surr: Decachlorobiphenyl</i>	<i>104 %</i>	<i>54-128</i>							

North Creek Analytical - Mobile Lab

Stephen Wilson, Environmental Group Leader

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Project: Amchitka
Project Number: 21090
Project Manager: Anne Kranawetter

Reported:
10/23/01 14:32

Total Metals per EPA 6000/7000 Series Methods
North Creek Analytical - Mobile Lab

Analyte	Result	Reporting Limit	Units	Dilution	Method	Prepared	Analyzed	Batch	Notes
01AMTE04SW (M106074-01) Water						Sampled: 06/23/01 Received: 06/23/01			
Arsenic	0.0208	0.00500	mg/l	1	EPA 6020	06/24/01	06/25/01	0106084	A-02
Cadmium	ND	0.00200	"	"	"	"	"	"	
Chromium	ND	0.00500	"	"	"	"	"	"	
Lead	0.153	0.00500	"	"	"	"	"	"	A-01a
Selenium	ND	0.00500	"	"	"	"	"	"	
Silver	ND	0.00200	"	"	"	"	"	"	
Mercury	0.0000400	0.0000100	"	"	EPA 1631	06/24/01	06/25/01	0106083	

North Creek Analytical - Mobile Lab

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Anchorage, AK 99502-1116

Project: Amchitka
Project Number: 21090
Project Manager: Anne Kranawetter

Reported:
10/23/01 14:32

Conventional Chemistry Parameters per APHA/EPA Methods
North Creek Analytical - Mobile Lab

Analyte	Result	Reporting Limit	Units	Dilution	Method	Prepared	Analyzed	Batch	Notes
01AMTE04SW (M106074-01) Water						Sampled: 06/23/01 Received: 06/23/01			
Biochemical Oxygen Demand	7.64	4.00	mg/l	1	EPA 405.1	06/25/01	06/30/01	0106086	A-01
Dissolved Oxygen	11.3	1.00	"	"	EPA 360.1	06/24/01	06/24/01	0106078	I-02
pH	6.66	0.100	pH Units	"	EPA 150.1	06/23/01	06/23/01	"	
Total Suspended Solids	17.0	10.0	mg/l	"	EPA 160.2	06/24/01	06/24/01	0106081	

North Creek Analytical - Mobile Lab

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Project: Amchitka
Project Number: 21090
Project Manager: Anne Kranawetter

Reported:
10/23/01 14:32

Microbiological Parameters per APHA Standard Methods
North Creek Analytical - Mobile Lab

Analyte	Result	Reporting Limit	Units	Dilution	Method	Prepared	Analyzed	Batch	Notes
01AMTE04SW (M106074-01) Water					Sampled: 06/23/01 Received: 06/23/01				
E. Coli	3.10	2.00MPN/100 ml	1		SM 9221	06/23/01	06/24/01	0106079	
Total Coliforms	2420	2.00	"	"	"	"	"	"	A-01b

North Creek Analytical - Mobile Lab

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Anchorage, AK 99502-1116

Project: Amchitka
Project Number: 21090
Project Manager: Anne Kranawetter

Reported:
10/23/01 14:32

Polychlorinated Biphenyls per EPA Method 8082 - Quality Control

North Creek Analytical - Mobile Lab

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 0106091 - 3520B Liq-Liq

Blank (0106091-BLK1)

Prepared: 06/26/01 Analyzed: 06/28/01

Aroclor 1016	ND	0.500	ug/l
Aroclor 1221	ND	1.00	"
Aroclor 1232	ND	0.500	"
Aroclor 1242	ND	0.500	"
Aroclor 1248	ND	0.500	"
Aroclor 1254	ND	0.500	"
Aroclor 1260	ND	0.500	"

Surr: 2,4,5,6-Tetrachloro-m-xylene	0.301	"	0.400	75.2	44-119
Surr: Decachlorobiphenyl	0.383	"	0.400	95.8	54-128

LCS (0106091-BS1)

Prepared: 06/26/01 Analyzed: 06/28/01

Aroclor 1254	2.37	0.500	ug/l
Surr: 2,4,5,6-Tetrachloro-m-xylene	0.303		"
Surr: Decachlorobiphenyl	0.375		"

LCS Dup (0106091-BSD1)

Prepared: 06/26/01 Analyzed: 06/28/01

Aroclor 1254	2.51	0.500	ug/l	2.50	100	47-155	5.74	50
Surr: 2,4,5,6-Tetrachloro-m-xylene	0.270		"	0.400	67.5	44-119		
Surr: Decachlorobiphenyl	0.385		"	0.400	96.2	54-128		

North Creek Analytical - Mobile Lab

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Bristol Environmental & Engineering	Project: Amchitka	
2000 W International Airport C#1	Project Number: 21090	Reported:
Anchorage, AK 99502-1116	Project Manager: Anne Kranawetter	10/23/01 14:32

Total Metals per EPA 6000/7000 Series Methods - Quality Control

North Creek Analytical - Mobile Lab

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 0106083 - EPA 1631

Blank (0106083-BLK1) Prepared: 06/24/01 Analyzed: 06/25/01

Mercury	ND	0.0000100	mg/l							
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LCS (0106083-BS1) Prepared: 06/24/01 Analyzed: 06/25/01

Mercury	0.000146	0.0000100	mg/l	0.000125		117	85-115			Q-01
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Duplicate (0106083-DUP1) Source: M106074-01 Prepared: 06/24/01 Analyzed: 06/25/01

Mercury	0.0000375	0.0000100	mg/l	0.0000400				6.45	20	
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Matrix Spike (0106083-MS1) Source: M106074-01 Prepared: 06/24/01 Analyzed: 06/25/01

Mercury	0.000141	0.0000100	mg/l	0.000125	0.0000400	80.8	75-125			
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Batch 0106084 - Metals

Blank (0106084-BLK1) Prepared: 06/24/01 Analyzed: 06/25/01

Arsenic	ND	0.00500	mg/l							
Cadmium	ND	0.00200	"							
Chromium	ND	0.00500	"							
Lead	ND	0.00500	"							
Selenium	ND	0.00500	"							
Silver	ND	0.00200	"							

LCS (0106084-BS1) Prepared: 06/24/01 Analyzed: 06/25/01

Arsenic	0.115	0.00500	mg/l	0.100		115	80-120			
Cadmium	0.116	0.00200	"	0.100		116	80-120			
Chromium	0.108	0.00500	"	0.100		108	80-120			
Lead	0.108	0.00500	"	0.100		108	80-120			
Selenium	0.118	0.00500	"	0.100		118	75-115			Q-01
Silver	0.106	0.00200	"	0.100		106	80-120			

North Creek Analytical - Mobile Lab

Stephen Wilson, Environmental Group Leader

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Anchorage, AK 99502-1116

Project: Amchitka
Project Number: 21090
Project Manager: Anne Kranawetter

Reported:
10/23/01 14:32

Total Metals per EPA 6000/7000 Series Methods - Quality Control

North Creek Analytical - Mobile Lab

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
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Batch 0106084 - Metals

Duplicate (0106084-DUP1)

Source: M106074-01

Prepared: 06/24/01 Analyzed: 06/25/01

Arsenic	0.0222	0.00500	mg/l		0.0208		6.51	20	
Cadmium	ND	0.00200	"		ND			20	
Chromium	ND	0.00500	"		ND			20	
Lead	0.160	0.00500	"		0.153		4.47	20	
Selenium	ND	0.00500	"		ND			20	
Silver	ND	0.00200	"		ND			20	

Matrix Spike (0106084-MS1)

Source: M106074-01

Prepared: 06/24/01 Analyzed: 06/25/01

Arsenic	0.134	0.00500	mg/l	0.100	0.0208	113	75-125		
Cadmium	0.114	0.00200	"	0.100	ND	114	75-125		
Chromium	0.108	0.00500	"	0.100	ND	108	75-125		
Lead	0.254	0.00500	"	0.100	0.153	101	75-125		
Selenium	0.112	0.00500	"	0.100	ND	112	75-125		
Silver	0.103	0.00200	"	0.100	ND	103	75-125		

North Creek Analytical - Mobile Lab

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2000 W International Airport C#1
Anchorage, AK 99502-1116

Project: Amchitka
Project Number: 21090
Project Manager: Anne Kranawetter

Reported:
10/23/01 14:32

Conventional Chemistry Parameters per APHA/EPA Methods - Quality Control

North Creek Analytical - Mobile Lab

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
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Batch 0106078 - Wet Chem

Duplicate (0106078-DUP1) Source: M106074-01 Prepared & Analyzed: 06/23/01

pH	6.65	0.100	pH Units	6.66			0.150	200	
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Batch 0106081 - Wet Chem

Blank (0106081-BLK1) Prepared & Analyzed: 06/24/01

Total Suspended Solids	ND	10.0	mg/l						
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LCS (0106081-BS1) Prepared & Analyzed: 06/24/01

Total Suspended Solids	63.0	10.0	mg/l	60.9	103	80-120			
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Duplicate (0106081-DUP1) Source: M106074-01 Prepared & Analyzed: 06/24/01

Total Suspended Solids	16.0	10.0	mg/l	17.0			6.06	20	
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Batch 0106086 - Wet Chem

Blank (0106086-BLK1) Prepared: 06/25/01 Analyzed: 06/30/01

Biochemical Oxygen Demand	ND	4.00	mg/l						A-01
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LCS (0106086-BS1) Prepared: 06/25/01 Analyzed: 06/30/01

Biochemical Oxygen Demand	154	4.00	mg/l	198	77.8	75-125			A-01
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Duplicate (0106086-DUP1) Source: M106074-01 Prepared: 06/25/01 Analyzed: 06/30/01

Biochemical Oxygen Demand	7.28	4.00	mg/l	7.64			4.83	40	A-01
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Bristol Environmental & Engineering
2000 W International Airport C#1
Anchorage, AK 99502-1116

Project: Amchitka
Project Number: 21090
Project Manager: Anne Kranawetter

Reported:
10/23/01 14:32

Microbiological Parameters per APHA Standard Methods - Quality Control

North Creek Analytical - Mobile Lab

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
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Batch 0106079 - Micro Extractions

Blank (0106079-BLK1)

Prepared: 06/23/01 Analyzed: 06/24/01

E. Coli	ND	2.00	MPN/100 ml
Total Coliforms	ND	2.00	"

North Creek Analytical - Mobile Lab

Stephen Wilson, Environmental Group Leader

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

North Creek Analytical, Inc.
Environmental Laboratory Network



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Notes and Definitions

- A-01 Blank and Seed failed method acceptance criteria. Data is estimated.
- A-01a The ICV value for this element was high at 113.6 (90-110). The sample result for this element was non-detect and is not affected. DoD QSM Draft 5.9.4.2.E.1
- A-01b The reported MPN value is actually >2419.2 according to table supplied by QuantiTray manufacturer, IDEXX Laboratories.
- A-02 The ICV value for this element was high at 111.90 (90-110), which may result in the data being biased slightly high.
- I-02 This sample was analyzed outside of the EPA recommended holding time.
- Q-01 The spike recovery for this QC sample is outside of established control limits. Review of associated batch QC indicates the recovery for this analyte does not represent an out-of-control condition for the batch.
- R-05 Reporting limits raised due to dilution necessary for analysis.
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis. MRLs are adjusted if %Solids are less than 50%.
- wet Sample results reported on a wet weight basis (as received)
- RPD Relative Percent Difference

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Items for Project Manager Review

LabNumber	Analysis	Analyte	Exception
			Report recreated from: \\sisters\elmnt\Report\M106074 FINAL 10 23 01 1432.mdb Default Report (not modified)
0106083-BS1	Hg Total CVAF 1631	Mercury	Q-01
0106083-BS1	Hg Total CVAF 1631	Mercury	Exceeds upper control limit
0106084-BS1	Se Total ICPMS 6020	Selenium	Q-01
0106084-BS1	Se Total ICPMS 6020	Selenium	Exceeds upper control limit
0106086-BLK1	BOD-405.1	Biochemical Oxygen Demand	A-01
0106086-BS1	BOD-405.1	Biochemical Oxygen Demand	A-01
0106086-DUP1	BOD-405.1	Biochemical Oxygen Demand	A-01
M106074-01	8082 PCB		R-05
M106074-01	As Total ICPMS 6020	Arsenic	A-02
M106074-01	BOD-405.1	Biochemical Oxygen Demand	A-01
M106074-01	DO-360.1	Dissolved Oxygen	I-02
M106074-01	DO-360.1		Sampled->Prepared > 1.00 days
M106074-01	Pb Total ICPMS 6020	Lead	A-01a
M106074-01	TC MPN-SM9221	Total Coliforms	A-01b